



Denison Mines (USA) Corp.
1050 17th Street, Suite 950
Denver, CO 80265
USA

Tel : 303 628-7798
Fax : 303 389-4125

www.denisonmines.com

August 1, 2011

Utah Division of Water Rights
1594 West North Temple Suite 220
PO Box 146300
Salt Lake City, Utah
84114-6300
801.538.7240

Dear State Engineer:

Re: Denison Mines (USA) Corp Request for Non-Production Well Construction For Wells Deeper than 30 Feet.

Enclosed please find an application to install nine separate non-production monitoring wells, located in the Southwest corner of Section 33, Township 28 South, Range 24 East, San Juan County, Utah. Also enclosed please find a historic property effect evaluation form.

Yours very truly,

DENISON MINES (USA) CORP.

A handwritten signature in blue ink, appearing to read "Christy Woodward".

Christy Woodward, PE
Environmental Coordinator

Cc: Denison Mines (USA) Corp., File
Terry Wetz and Mark Mathisen, Denison Mines (USA) Corp.
Lowry Redd, Redd Ranches LLC
Paul Baker, Utah Division of Oil, Gas and Mining

RECEIVED

AUG 03 2011

DIV. OF OIL, GAS & MINING

REQUEST FOR NON-PRODUCTION WELL CONSTRUCTION

UTAH DIVISION OF WATER RIGHTS

(for wells deeper than 30 feet)

Well Type (check one): Provisional/Rush Letter () *if checked, provide water right/application #* _____

Test () Monitoring (X) Cathodic Protection () Closed Loop Heat Exchange* ()

Piezometer () Inclinator () Dewatering () Other _____

*This form cannot be used for open loop heat exchange wells. A non-consumptive use water right application must be filed for open loop heat exchange wells.

Applicant/Owner Name: Denison Mines USA Corp

Mailing Address: 1050 17th Street Suite 950 Denver, Colorado 80265

Project Address: 45 Wilcox Road LaSal, Utah 84515

Contact Person: Christy Woodward Phone: 303-389-4136

Proposed Start Date: 08/01/2011 Anticipated Completion Date: 09/09/2011

Well Driller Name & License #: Utah #796 Proposed # of Wells: 9

PROPOSED LOCATION OF WELLS: County: San Juan Area: _____

NO./SO. DISTANCE (feet)	EAST/WEST DISTANCE (feet)	SECTION CORNER	SECTION	TOWNSHIP	RANGE	BASE	DIAMETER (inches)	DEPTH (feet)	PROPERTY PARCEL NUMBER
N 943.47	E 1088.9	SW	33	28S	24E	SL	4.5	1000	336000
N 838.07	E 1199.0	SW	33	28S	24E	SL	4.5	1000	336000
N 713.76	E 878.55	SW	33	28S	24E	SL	4.5	1000	336000
N 912.88	E 1128.5	SW	33	28S	24E	SL	4.5	300	336000
N 433.53	E 1105.8	SW	33	28S	24E	SL	4.5	300	336000
N 538.79	E 732.86	SW	33	28S	24E	SL	4.5	300	336000
N 912.88	E 1128.5	SW	33	28S	24E	SL	4.5	120	336000
N 433.53	E 1105.8	SW	33	28S	24E	SL	4.5	120	336000
N 538.79	E 732.86	SW	33	28S	24E	SL	4.5	120	336000

Use back of form or additional paper if more room is needed. If providing well locations in latitude/longitude or UTM coordinates, please also provide the map datum used (e.g., NAD27, NAD83, WGS84, etc.). A Historic Property Effect Evaluation must be submitted with this form in accordance with Sec. 9-8-404 UCA.

EXPLANATORY: Assess mine water withdrawal and management and support a groundwater discharge permit application

RECEIVED

AUG 03 2011

DIV. OF OIL, GAS & MINING

Signature of Applicant *Terry V. Webb* (attesting to completeness & accuracy)

Date

27 JUL 2011

FOR OFFICE USE ONLY

Approved By: _____ Approval Date: _____ Non-Production Well No.: _____

Request for Non-Production Well

Utah State History
300 South Rio Grande Street
Salt Lake City, Utah 84101

HISTORIC PROPERTY EFFECT EVALUATION

UTAH DIVISION OF WATER RIGHTS

In accordance with Sec. 9-8-404, Utah Code Annotated, before approving any undertaking the Division must take into account the effect of the undertaking on historic properties and provide the State Historic Preservation officer with a written evaluation.

Project Number (Water Right, Non-Production Well, or Dam Application Number) : _____

Project Location : Section _____ Township _____ Range _____ Base & Meridian _____

Project Description: If the accompanying application is approved, what physical effects will occur to the land surface (i.e. buildings, pipelines, roads, wells, etc.)?

NINE MONITORING WELLS WILL STICK UP APPROXIMATELY TWO FEET ABOVE GROUND SURFACE (SEE ATTACHED DRAWINGS). DRILL ACCESS ROADS WILL BE NEEDED OFF OF LACKEY BASIN ROAD

Describe any historic properties that you are aware could be effected by the proposed project.

NONE

Describe any historic property survey you are aware has been conducted at or near the site where the proposed project is to occur.

NONE

Is there a federal or state connection to this project that has/will require a historic property evaluation? Y ☒ N

It is the opinion of the Division the above-described undertaking may / will not affect historic property. For additional information on the proposed undertaking please visit the Division's website at <http://waterrights.utah.gov> or call 801-538-7240.

7 / 27 / 2011
Date

8" DIAMETER PROTECTIVE
STEEL CASING EXTENDING
36" BENEATH GROUND TYPICAL
INTERIOR WELL CASING
18-24" ABOVE GROUND SURFACE
1/4" DIAMETER DRAIN HOLE

LOCKING VENTED
WATER-TIGHT CAP

LOCKING STEEL CAP

PEA GRAVEL WITHIN SPACE
BETWEEN WELL CASING AND
PROTECTIVE STEEL CASING

24" TYP.

CONCRETE APRON 6" THICK

BENTONITE GROUT -
MINIMUM 20% SOLIDS

2" SCH. 80 PVC
BLANK CASING (FLUSH
THREADED JOINTS)

NOMINAL 6" BOREHOLE

CENTRALIZER
SPACING 100' TYP.

5' THICK BENTONITE SEAL

24" THICK FILTERPACK SEAL
80-100 MESH SILICA SAND

10-20 SILICA SAND
TO 24" ABOVE SCREEN

CENTRALIZER

SUBMERSIBLE
ELECTRIC PUMP AND
PRESSURE TRANSDUCER

2" SCHEDULE 80 PVC
0.02-INCH (10 SLOT) SCREEN
(20' LENGTH-VARIES)

ALLUVIAL DEPOSITS
TOP OF MANCOS SHALE

APPROXIMATE DEPTH 100 FEET

SCHEDULE 80 PVC
END CAP (THREADED)



DENISON MINES
REDD BLOCK IV MINE

ALLUVIAL AQUIFER MONITORING
WELL SCHEMATIC

DESIGNED: NLS

DRAWN: MK

CHECKED: MRN

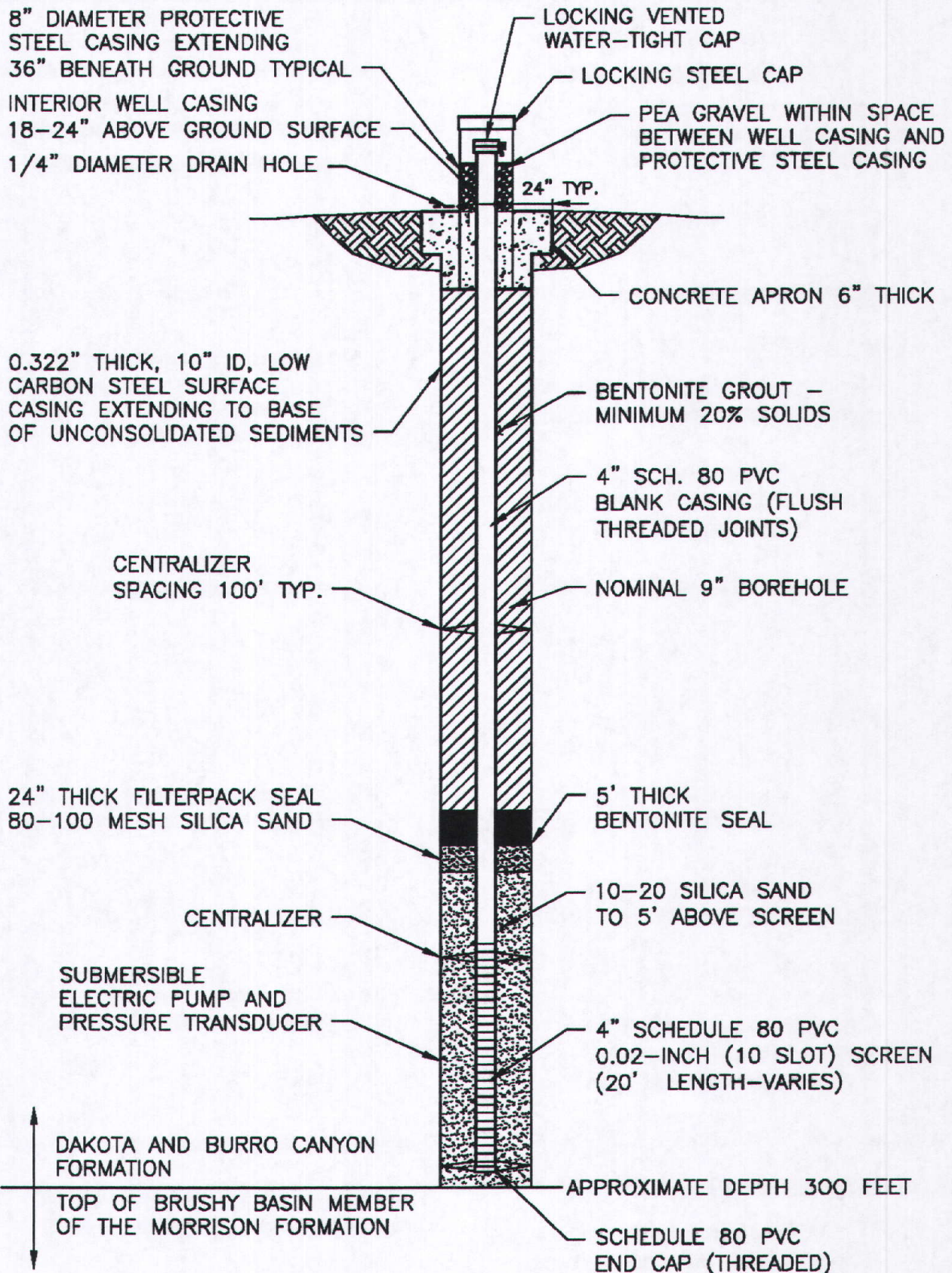
DATE: May 2011

FILE: FIG A-1.pdf

SCALE: NTS

DRAWING
NO.

A-1



S:\64986\FIGS\ FIG A-2 05/26/11 11:47 Kuzmicki



DENISON MINES
REDD BLOCK IV MINE

D AQUIFER MONITORING
WELL SCHEMATIC

DESIGNED: NLS

DRAWN: MK

CHECKED: MRN

DATE: May 2011

FILE: FIG A-2.pdf

SCALE: NTS

DRAWING
NO.

A-2

8" DIAMETER PROTECTIVE
STEEL CASING EXTENDING
36" BENEATH GROUND TYPICAL
INTERIOR WELL CASING
18-24" ABOVE GROUND SURFACE
1/4" DIAMETER DRAIN HOLE

LOCKING VENTED
WATER-TIGHT CAP

LOCKING STEEL CAP

PEA GRAVEL WITHIN SPACE
BETWEEN WELL CASING AND
PROTECTIVE STEEL CASING

24" TYP.

CONCRETE APRON 6" THICK

0.322" THICK, 10" ID, LOW
CARBON STEEL SURFACE
CASING EXTENDING TO BASE
OF UNCONSOLIDATED SEDIMENTS

BENTONITE GROUT -
MINIMUM 20% SOLIDS

4 1/2" OD THREADED AND
COUPLED STEEL CASING
API H-40 JOINTS, API 5 CT

HEAVY DUTY STEEL
CENTRALIZER
SPACING 100' TYP.

NOMINAL 9" BOREHOLE

BRUSHY BASIN MEMBER OF
THE MORRISON FORMATION

5' THICK BENTONITE SEAL
(RETARDED HYDRATION)

TOP OF THE TOP RIM SANDSTONE
IN THE SALT WASH MEMBER OF
THE MORRISON FORMATION

24" THICK FILTERPACK SEAL
80-100 MESH SILICA SAND

10-20 SILICA SAND
TO 5' ABOVE SCREEN

CENTRALIZER

STEEL TRANSITION COUPLING

SUBMERSIBLE ELECTRIC PUMP
AND PRESSURE TRANSDUCER

4" STEEL 0.02-INCH
(10 SLOT) SCREEN
(60' LENGTH-VARIES)

BASE OF TOP RIM SANDSTONE
BRUSHY BASIN MEMBER

APPROXIMATE DEPTH 1000 FEET

STEEL END CAP
(THREADED)

CDM
consulting
engineering
construction
operations

DENISON MINES
REDD BLOCK IV MINE

M AQUIFER EXTRACTION
WELL SCHEMATIC

DESIGNED: NLS

DRAWN: MK

CHECKED: MRN

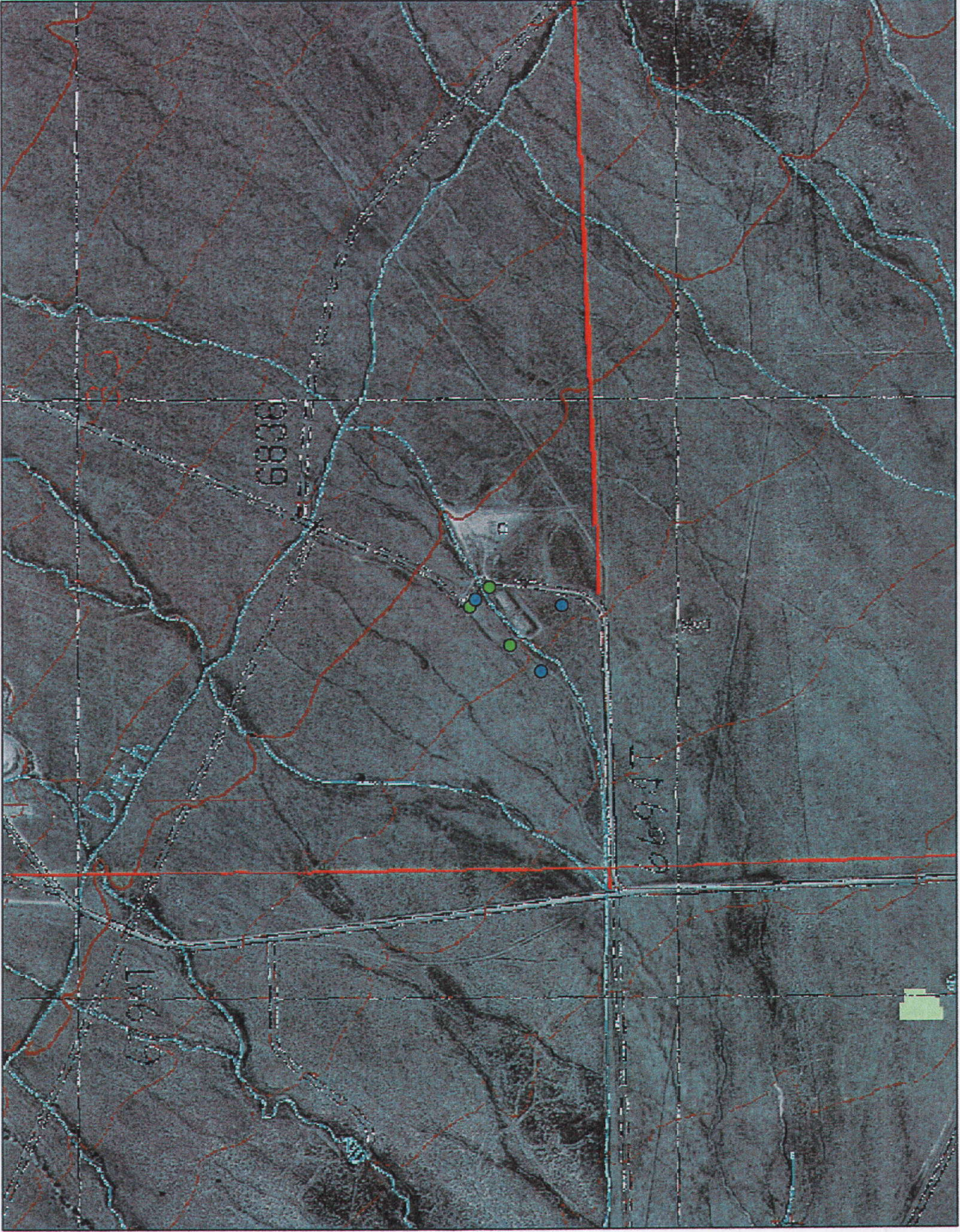
DATE: May 2011

FILE: FIG A-3.pdf

SCALE: NTS

DRAWING
NO.

A-3



Legend

- Proposed monitoring well in M aquifer
- Proposed monitoring wells in alluvial and D aquifers



0 250 500 1,000 Feet

CDM

Figure 5

Denison Mines
Redd Block IV Area
Proposed Monitoring Wells
San Juan County, Utah



N38:322°

Proposed Monitoring Well #1 in M-Aquifer

Proposed Monitoring Well #2 in M-Aquifer

Proposed Monitoring Well #3 in M-Aquifer

Proposed Monitoring Well #2 in Alluvium and D-Aquifer

W109:292°

Proposed Monitoring Well #3 in Alluvium and D-Aquifer

N38:3148°

Google
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Image ©2011 GeoEye

©2011 Google

1054 ft

W Date: 6/21/2009

Lat: 38.312104° Lon: -109.288249° elev: 5781 ft

M-well #1

UTM NAD27 649602.141, 4242355.555
UTM NAD83 649540.022, 4242559.466
Geographic NAD83/WGS84 -109.28938872, 38.3186883794
Lat/Long NAD83/WGS84 38.3186883794, -109.28938872
State Plane NAD27 Utah South 2634396.267, 609040.99
State Plane NAD83 Utah South 2274610.085, 10451566.127

PLSS Description is North 943.47 feet and East 1,088.93 feet from the SW Corner of Section 33,
Township 28S, Range 24E, SL B&M

County: San Juan
Area Code: 05
Book Name: LISBON VALLEY BOOK 5
Office: PRICE
Quad Name: LA SAL WEST

M-well #2

UTM NAD27 649635.708, 4242323.43
UTM NAD83 649573.588, 4242527.341
Geographic NAD83/WGS84 -109.289011709, 38.3183933852
Lat/Long NAD83/WGS84 38.3183933852, -109.289011709
State Plane NAD27 Utah South 2634506.945, 608936.148
State Plane NAD83 Utah South 2274720.764, 10451461.283

PLSS Description is North 838.07 feet and East 1,199.07 feet from the SW Corner of Section 33,
Township 28S, Range 24E, SL B&M

County: San Juan
Area Code: 05
Book Name: LISBON VALLEY BOOK 5
Office: PRICE
Quad Name: LA SAL WEST

M-well #3

UTM NAD27	649538.02, 4242285.544
UTM NAD83	649475.901, 4242489.454
Geographic NAD83/WGS84	-109.290136722, 38.3180683763
Lat/Long NAD83/WGS84	38.3180683763, -109.290136722
State Plane NAD27 Utah South	2634187.049, 608810.194
State Plane NAD83 Utah South	2274400.871, 10451335.326

PLSS Description is North 713.76 feet and East 878.55 feet from the SW Corner of Section 33,
Township 28S, Range 24E, SL B&M

County: San Juan
Area Code: 05
Book Name: LISBON VALLEY BOOK 5
Office: PRICE
Quad Name: LA SAL WEST

Alluvium # 1 and D-well #1

UTM NAD27	649614.208, 4242346.232
UTM NAD83	649552.089, 4242550.143
Geographic NAD83/WGS84	-109.289252717, 38.3186023813
Lat/Long NAD83/WGS84	38.3186023813, -109.289252717
State Plane NAD27 Utah South	2634436.017, 609010.603
State Plane NAD83 Utah South	2274649.836, 10451535.739

PLSS Description is North 912.88 feet and East 1,128.53 feet from the SW Corner of Section 33,
Township 28S, Range 24E, SL B&M

County: San Juan
Area Code: 05
Book Name: LISBON VALLEY BOOK 5
Office: PRICE
Quad Name: LA SAL WEST

Alluvium #2 and D-well #2

UTM NAD27	649607.294, 4242200.132
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UTM NAD83 649545.176, 4242404.041
Geographic NAD83/WGS84 -109.289362697, 38.3172873894
Lat/Long NAD83/WGS84 38.3172873894, -109.289362697
State Plane NAD27 Utah South 2634415.788, 608531.106
State Plane NAD83 Utah South 2274629.61, 10451056.234

PLSS Description is North 433.53 feet and East 1,105.84 feet from the SW Corner of Section 33,
Township 28S, Range 24E, SL B&M

County: San Juan
Area Code: 05
Book Name: LISBON VALLEY BOOK 5
Office: PRICE
Quad Name: LA SAL WEST

Alluvium #3 and D-well #3

UTM NAD27 649493.616, 4242232.216
UTM NAD83 649431.498, 4242436.125
Geographic NAD83/WGS84 -109.290655722, 38.3175953745
Lat/Long NAD83/WGS84 38.3175953745, -109.290655722
State Plane NAD27 Utah South 2634042.249, 608634.47
State Plane NAD83 Utah South 2274256.073, 10451159.598

PLSS Description is North 538.79 feet and East 732.86 feet from the SW Corner of Section 33,
Township 28S, Range 24E, SL B&M

County: San Juan
Area Code: 05
Book Name: LISBON VALLEY BOOK 5
Office: PRICE
Quad Name: LA SAL WEST